

ACTINIDE ANALYSIS OF UNPRESERVED URINE SAMPLES

M. J. Ely, RFETS Analytical Services
Gerard Payne, Oak Ridge Intercomparison Studies Program
Eugene Potter, RFETS Internal Dosimetry

Results of tests for actinide analysis of unpreserved urine samples that were spiked and then analyzed after periods of over a year will be presented along with a simple bottle rinsing protocol and its basis. Data showed the bottle rinsing protocol produced results well within the ANSI 13.30 requirements for relative bias. Tests were conducted for Pu-239 and natural uranium.